#3

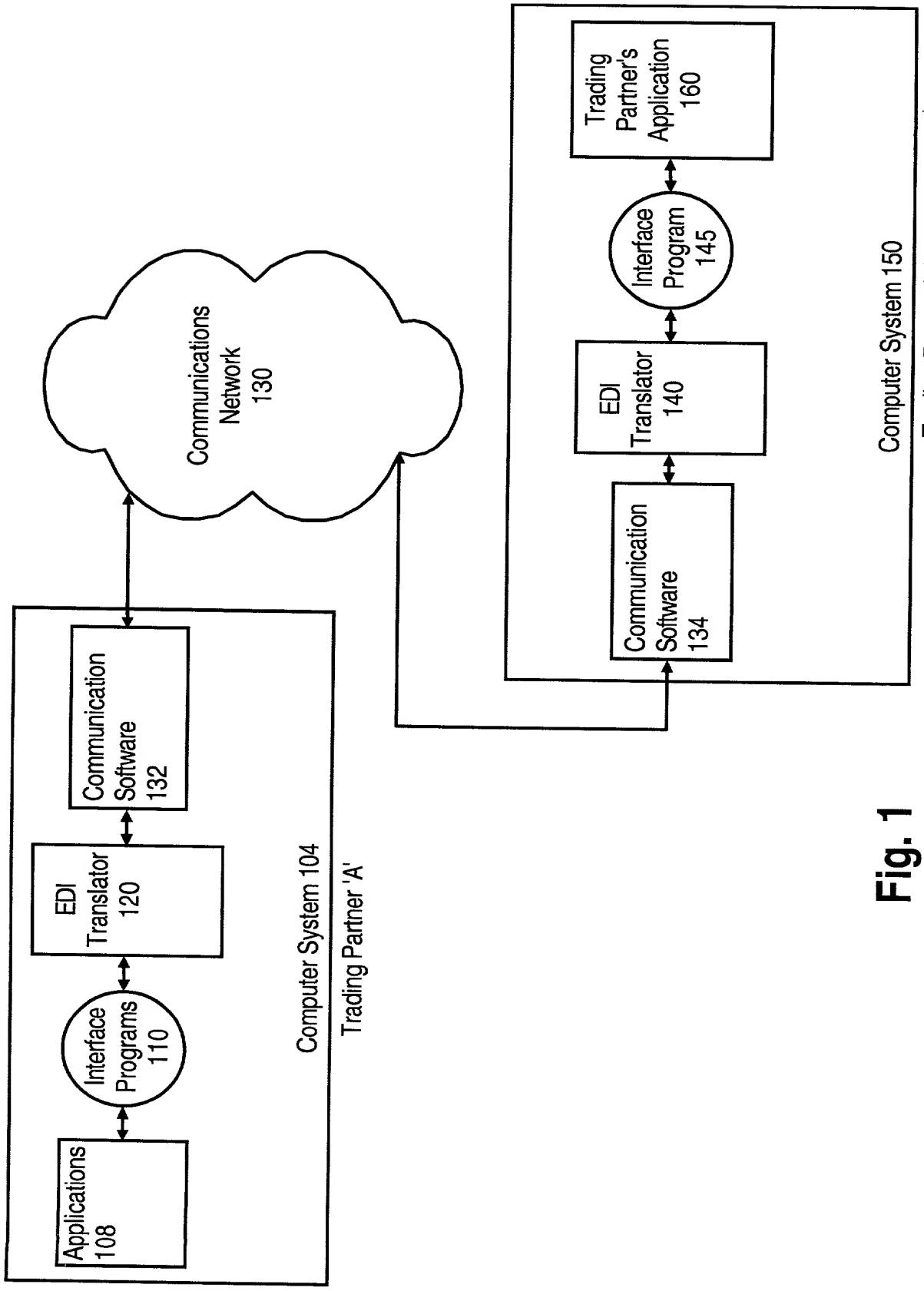
Communications Network 130
Computer System 104
Trading Partner 'A'
Applications 108
Interface Programs 110
EDI Translator 120
Communication Software 132
Computer System 150
Trading Partner 'B'
Trading Partner's Application 160
Interface Program 145
EDI Translator 140
Communication Software 134

Fig. 1

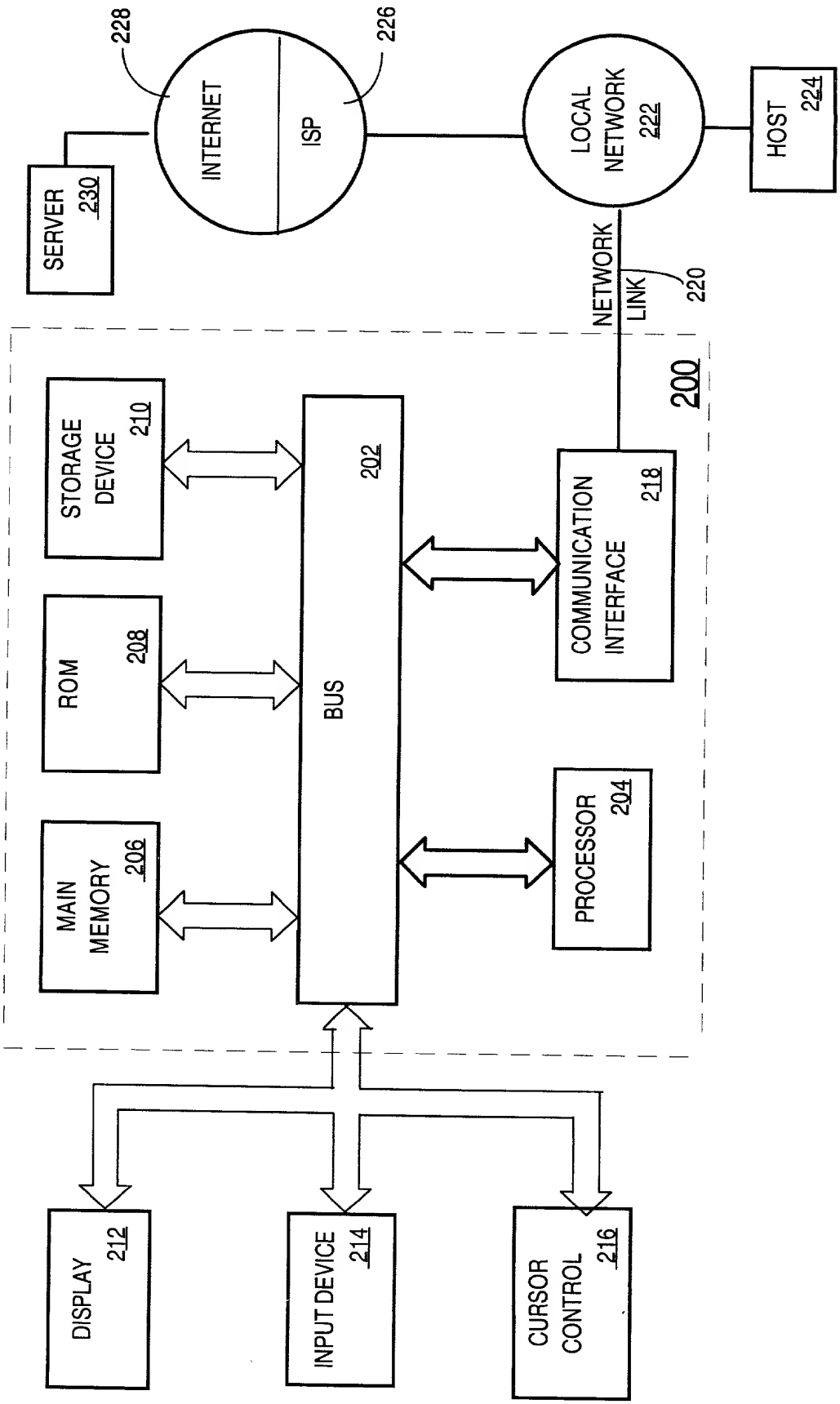
228
226
INTERNET
ISP
LOCAL NETWORK 222
HOST 224
SERVER 230
NETWORK LINK 220
200
STORAGE DEVICE 210
202
COMMUNICATION INTERFACE 218
ROM 208
BUS
MAIN MEMORY 206
PROCESSOR 204
DISPLAY 212
INPUT DEVICE 214
CURSOR CONTROL 216

Fig. 2

Search Keys Columns 315

External Value 332

	Category 310	First Key 315-1 **Industry**	Second Key 315-2 **Customer**	Third Key 315-3 **Site**	Internal Value 324	External Value 328	External Value 330
368	UOM	RETAIL	ACME	NY	DOZEN	DOZ	
366	UOM	RETAIL	ACME		DOZEN	DZN	
365	UOM	RETAIL			DOZEN	DZ	
364	UOM				DOZEN	12 EACH	
362	UOM				EA	EACH	
370	TERMS				2 NET 30	.02	30
	• • •						

Code Conversion Rule Table 300

Fig. 3

Title: APPLICATION CODE CONVERSION ARCHITECTURE
Inventor(s): Garret Minakawa, et al.
Serial No.: 09/775,886
Docket No. 50277-1639 Sheet 3 of 8

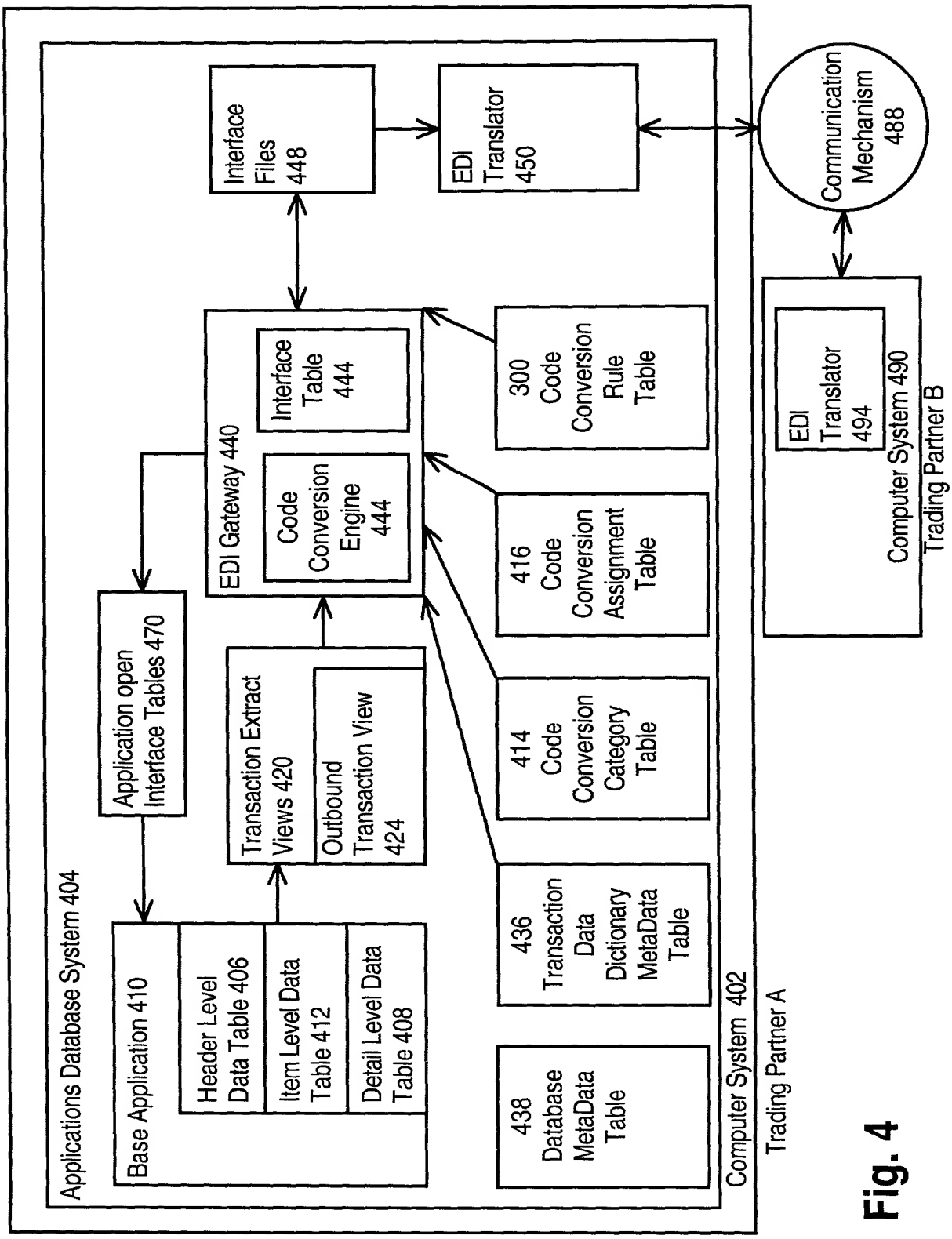
Applications Database System 404
Base Application 410
Header Level Data Table 406
Item Level Data Table 412
Detail Level Data Table 408
438 Database MetaData Table
436 Transaction Data Dictionary MetaData Table
414 Code Conversion Category Table
416 Code Conversion Assignment Table
300 Code Conversion Rule Table
Application open Interface Tables 470
Transaction Extract Views 420
Outbound Transaction View 424
EDI Gateway 440
Code Conversion Engine 444
Interface Table 444
Interface Files 448
EDI Translator 450
Computer System 402
Trading Partner A
Communication Mechanism 488
EDI Translator 494
Computer System 490
Trading Partner B

Fig. 4

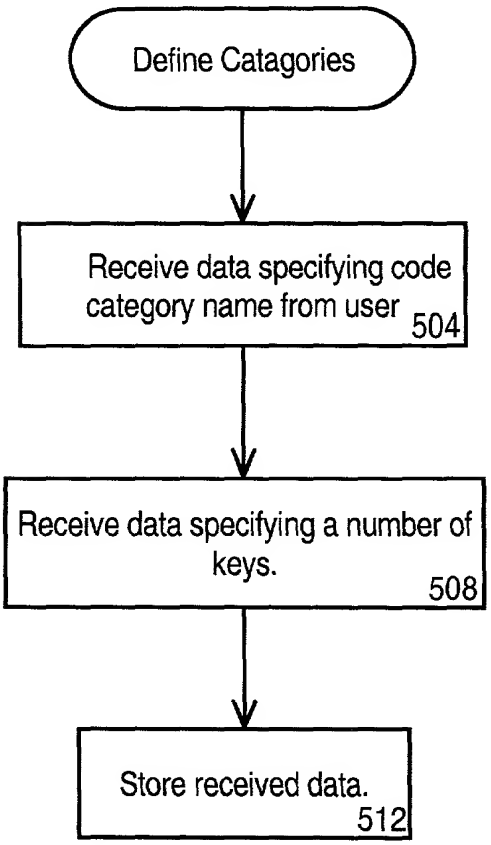
Define Catagories
Receive data specifying code category name from user
504
Receive data specifying a number of keys.
508
Store received data.
512

Fig. 5A

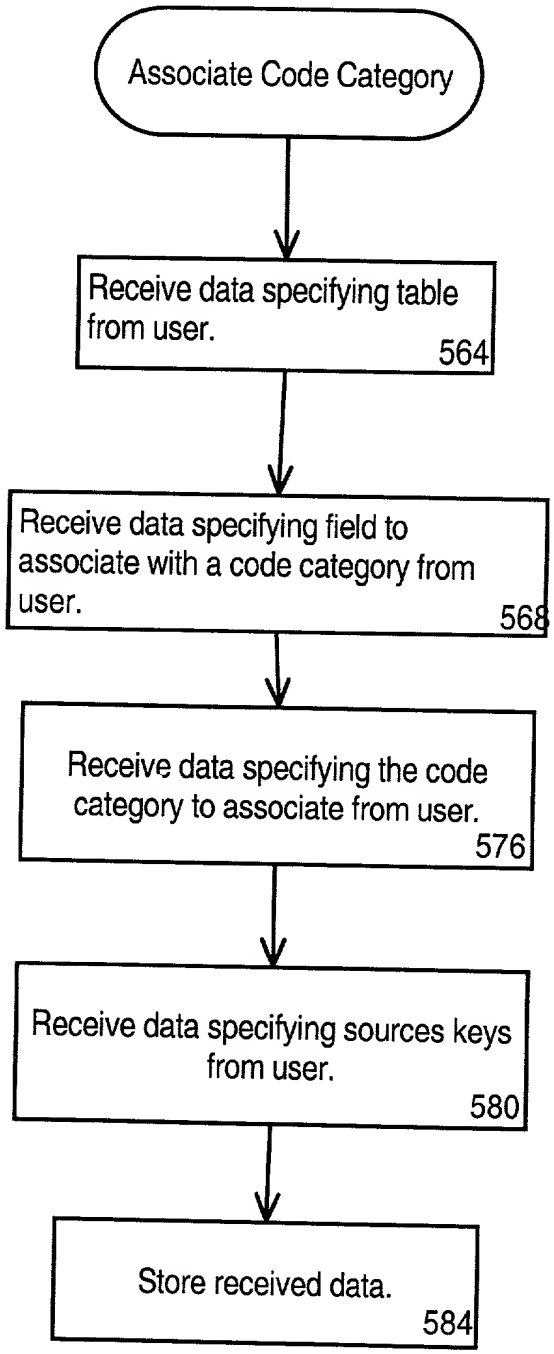
Associate Code Category
Receive data specifying table from user.
564
Receive data specifying field to associate with a code category from user.
568
Receive data specifying the code category to associate from user.
576
Receive data specifying sources keys from user.
580
Store received data.
584

Fig. 5B

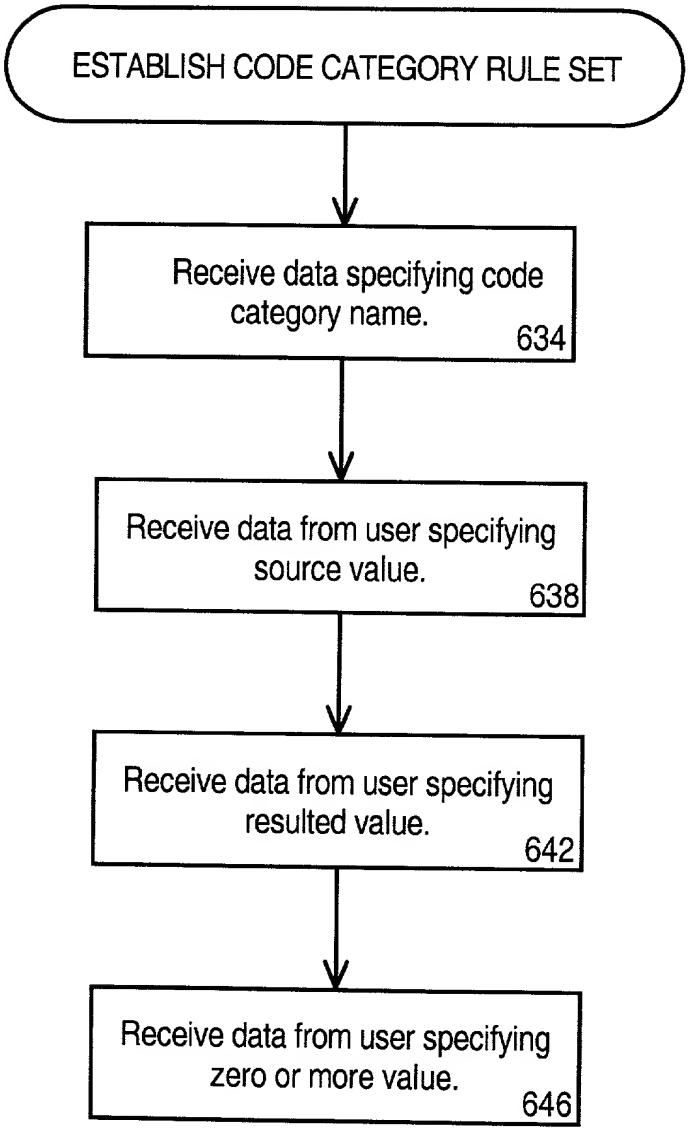
ESTABLISH CODE CATEGORY RULE SET
Receive data specifying code category name.
634
Receive data from user specifying source value.
638
Receive data from user specifying resulted value.
642
Receive data from user specifying zero or more value.
646

Fig. 6

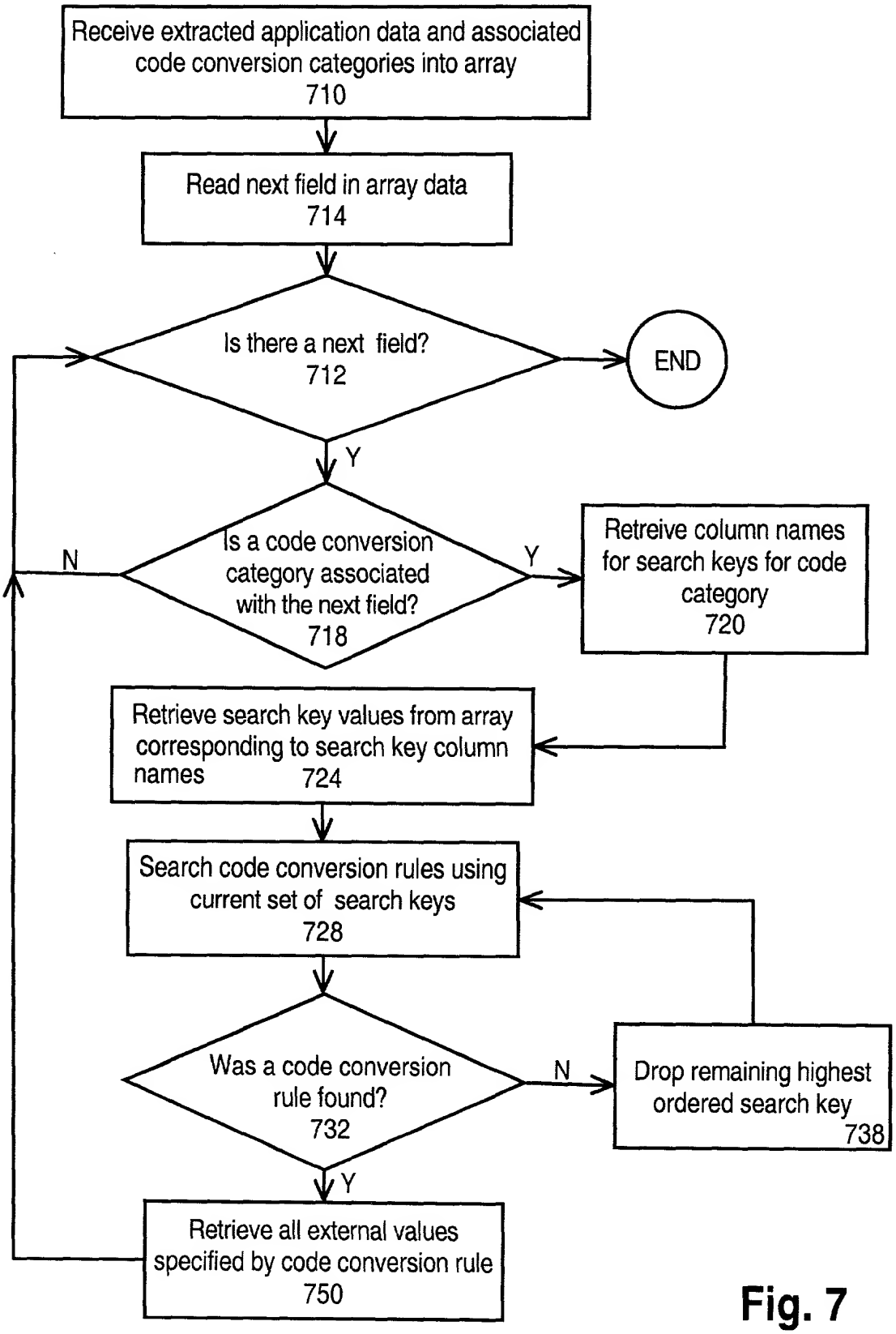
Receive extracted application data and associated code conversion categories into array
710
Read next field in array data
714
Is there a next field?
712
END
Y
Is a code conversion category associated with the next field?
718
N
Y
Retreive column names for search keys for code category
720
Retrieve search key values from array corresponding to search key column names
724
Search code conversion rules using current set of search keys
728
Was a code conversion rule found?
732
N
Drop remaining highest ordered search key
738
Y
Retrieve all external values specified by code conversion rule
750

Fig. 7